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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/995,251	11/27/2001	Franck Roche	00RO30354280	1363
27975	7590 12/03/2004		EXAM	INER
•	YER, DOPPELT, MILBE	YANCHUS III, PAUL B		
1401 CITRUS CENTER 255 SOUTH ORANGE AVENUE P.O. BOX 3791			ART UNIT	PAPER NUMBER
ORLANDO,	, FL 32802-3791	2116		
			DATE MAILED: 12/03/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.				
	Application No.	Applicant(s)			
	09/995,251	ROCHE ET AL.			
Office Action Summary	Examiner	Art Unit			
	Paul B Yanchus	2116			
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep. If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tiled by within the statutory minimum of thirty (30) day I will apply and will expire SIX (6) MONTHS from the, cause the application to becoma ABANDONE	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 19 F	February 2002.				
· ·	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.				
·	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayl</i> e, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4)	awn from consideration. s/are rejected. are objected to.	,			
Application Papers					
9)☐ The specification is objected to by the Examin	er.	•			
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the	e drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E					
Priority under 35 U.S.C. § 119					
12) △ Acknowledgment is made of a claim for foreign a) △ All b) □ Some * c) □ None of:  1. △ Certified copies of the priority document 2. □ Certified copies of the priority document 3. □ Copies of the certified copies of the priority application from the International Burea	nts have been received. Its have been received in Applicat Conty documents have been received (PCT Rule 17.2(a)).	ion No ed in this National Stage			
* See the attached detailed Office action for a list	t of the certified copies not receive	ed.			
Attachment(s)					
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 11/27/01.</li> </ol>	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:				

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#### **DETAILED ACTION**

Claims 15-44 are pending in this application.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 15-18, 22, 24-28, 32, 34-38 and 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim, US Patent no. 6,408,415, in view of, Farnworth et al., US Patent no. 6,605,956 [Farnworth].

Regarding claim 15, Kim discloses a microprocessor comprising:

- a first terminal receiving a mode selection signal [RESET in Figure 2];
- a second terminal for receiving a control signal [CLK in Figure 2]; and

a selection means connected to the first and second terminals for selecting an operating mode of the microprocessor based upon the mode selection signal and the control signal, said selection means comprising a counter [TEST MODE COUNTER] having a counting input [CLK] and a reset input [RSTb], first coupling means coupling the counting input the first terminal, second coupling means coupling the reset input to the second terminal [Figure 2 and column 2, line 45 – column 3, line 24].

Kim does not disclose a default means for maintaining by default the reset input at a first logic value for ensuring that said counter is maintained at zero in an absence of the control signal. Farnworth discloses a default means [Switching Circuit, Impedance Circuit and Voltage

Circuit in Figure 6A] for ensuring that an IC device does not accidentally enter a test mode of operation by holding a test mode determining signal at a constant value [column 5, line 49 – column 6, line 10 and column 7, lines 7-23]. It would have been obvious to one of ordinary skill in the art to insert the Farnworth default means into the Kim system in order to selectively disable a test mode to ensure that the test mode is not accidentally entered by a user [column 2, lines 16-23].

Regarding claims 16 and 17, Farnworth states that the default means may be located internally or externally to the IC [column 4, lines 59-63].

Regarding claim 18, Farnworth states that the impedance element may be a resistor [column 5, lines 63-65].

Regarding claim 22, Kim further discloses:

a decoder connected to an output of said counter for delivering at least one mode bit, with a value of each mode bit being based upon a counting result delivered by said counter [Figure 2 and column 2, line 66 – column 3, line 4]; and

a central processing unit connected to an output of said decoder for receiving the at least one mode bit [column 2, line 66 – column 3, line 4].

Regarding claim 24, Kim states that the operating mode is a test mode or a servicing mode requiring application of a predetermined number of pulses to the counting input of said counter during a selection period for selecting the operating mode of the microprocessor [column 3, lines 10-23].

Regarding claim 25, Kim states that the first and second terminals are reset and clock pins that do not require a separate test pin to request entry into a test mode [column 1, lines 50-53].

Regarding claim 26, Kim discloses a microprocessor comprising:

a first terminal receiving a mode selection signal [RESET in Figure 2];

a second terminal for receiving a control signal [CLK in Figure 2]; and

a selection means connected to the first and second terminals for selecting an operating mode of the microprocessor based upon the mode selection signal and the control signal, said selection means comprising a counter [TEST MODE COUNTER] having a counting input [CLK] and a reset input [RSTb], first coupling means coupling the counting input the first terminal, second coupling means coupling the reset input to the second terminal [Figure 2 and column 2, line 45 – column 3, line 24].

Kim does not disclose a device for maintaining the reset input at a first logic value for ensuring that said counter is maintained at a predetermined value in an absence of the control signal. Farnworth discloses a device [Switching Circuit, Impedance Circuit and Voltage Circuit in Figure 6A] for ensuring that an IC device does not accidentally enter a test mode of operation by holding a test mode determining signal at a constant value [column 5, line 49 – column 6, line 10 and column 7, lines 7-23]. It would have been obvious to one of ordinary skill in the art to insert the Farnworth device into the Kim system in order to selectively disable a test mode to ensure that the test mode is not accidentally entered by a user [column 2, lines 16-23].

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Regarding claims 27 and 28, Farnworth states that the impedance element may be a resistor [column 5, lines 63-65] and may be located internally or externally to the IC [column 4, lines 59-63].

Regarding claim 32, Kim further discloses:

a decoder connected to an output of said counter for delivering at least one mode bit, with a value of each mode bit being based upon a counting result delivered by said counter [Figure 2 and column 2, line 66 – column 3, line 4]; and

a central processing unit connected to an output of said decoder for receiving the at least one mode bit [column 2, line 66 – column 3, line 4].

Regarding claim 34, Kim states that the operating mode is a test mode or a servicing mode requiring application of a predetermined number of pulses to the counting input of said counter during a selection period for selecting the operating mode of the microprocessor [column 3, lines 10-23].

Regarding claim 25, Kim states that the first and second terminals are reset and clock pins that do not require a separate test pin to request entry into a test mode [column 1, lines 50-53].

Regading claim 36, Kim discloses a method for selecting an operating mode of a microprocessor comprising a counter having a counting input and a reset input, and a first coupling circuit coupling the counting input to a first terminal of the microprocessor, and a second coupling circuit coupling the reset input to a second terminal of the microprocessor [Figure 2 and column 2, line 45 – column 3, line 24] the method comprising:

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driving the counting input [CLK in Figure 2] with a mode selection signal applied to the first terminal of the microprocessor [RESET in Figure 2]; and

driving the reset input [RSTb in Figure 2] by a control signal applied to the second terminal [CLK in Figure 2] for activating the counter. Kim does not disclose maintaining by default the reset input at a first logic value for ensuring that the counter is maintained at a predetermined value in an absence of the control signal. Farnworth discloses a device [Switching Circuit, Impedance Circuit and Voltage Circuit in Figure 6A] for ensuring that an IC device does not accidentally enter a test mode of operation by holding a test mode determining signal at a constant value [column 5, line 49 – column 6, line 10 and column 7, lines 7-23]. It would have been obvious to one of ordinary skill in the art to insert the Farnworth device into the Kim system in order to selectively disable a test mode to ensure that the test mode is not accidentally entered by a user [column 2, lines 16-23].

Regarding claims 37 and 38, Farnworth states that the impedance element may be a resistor [column 5, lines 63-65] and may be located internally or externally to the IC [column 4, lines 59-63].

Regarding claim 41, Kim further discloses that the selection signal includes a predetermined number of pulses and using the counter for counting the number of pulses in the mode selection signal, generating at least one mode bit based upon the number of pulses counted, and delivering the at least one mode bit to a central processing unit [column 2, line 66 – column 3, line 4].

Regarding claim 43, Kim states that the operating mode is a test mode or a servicing mode requiring application of a predetermined number of pulses to the counting input of said

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counter during a selection period for selecting the operating mode of the microprocessor [column 3, lines 10-23].

Regarding claim 44, Kim states that the first and second terminals are reset and clock pins that do not require a separate test pin to request entry into a test mode [column 1, lines 50-53].

## Allowable Subject Matter

Claims 19-21, 23, 29-31, 33, 39-40 and 42 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Chen et al., US Patent no. 6,526,536, discloses an apparatus for preventing an integrated circuit from erroneously entering a test mode of operation.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul B Yanchus whose telephone number is (571) 272-3678. The examiner can normally be reached on Mon-Thurs 8:00-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne H Browne can be reached on (571) 272-3670. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Paul Yanchus November 29, 2004

> JOHN R. COTTINGHAM PRIMARY EXAMINES